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Thanks,
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A B S T R A C T

A BANDPASS FILTER WITH CARRIER FREQUENCY REDUCTION

5 The invention provides a bandpass filtering method in which two frequency transpositions are performed in parallel on an input signal ~~(SE)~~ for filtering using respective first and second upstream mixing signals ~~(SM1, SM2)~~ that are substantially in phase quadrature, so as to obtain respective first and second transposed signals ~~(ST1, ST2)~~, and the two transposed signals are filtered respectively by two lowpass filters ~~(F1, F2)~~, the frequency of the transposition signals (ω_0) and the passband $(B/2)$ of the low-pass filters being related to
10 the frequency of the input signal (ω_i) and to the passband desired for the bandpass filter, then respective frequency transpositions are performed on the first and second filtered transposed signals ~~(STF1, STF2)~~ using two
15 respective downstream mixing signals ~~(SMV1, SMV2)~~ and two downstream mixing signals ~~(SMV1, SMV2)~~ using a two common oscillator ~~(LO)~~ is used which is coupled with a first phase shifter ~~(MFM1)~~ to produce the upstream mixing signals and which is coupled with a second phase shifter ~~(MFM2)~~ to produce the downstream mixing signals, and in that the phase shifters
20 are used in opposite manner on the first and second signals so that each of said first and second signals ~~(VT1, VT2)~~ receives the phase-advanced output signal from one of the two phase shifters and the phase-delayed output signal from the other of the two phase shifters.
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